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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/971,972	10/05/2001	Raj Subbu	H26-073 US	5708		
21706	7590 11/17/2003		EXAMI	EXAMINER		
NOTARO AND MICHALOS			· HIRL, JOS	HIRL, JOSEPH P		
100 DUTCH F SUITE 110	IILL ROAD		ART UNIT	PAPER NUMBER		
ORANGEBURG, NY 10962-2100			2121			
		,	DATE MAILED: 11/17/2003	3		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Ar	oplication No.	Applicant(s)	d.				
Office Action Summers		09	9/971,972	SUBBU ET AL.					
Office Action Summary			caminer	Art Unit					
			seph P. Hirl	2121					
Period fo	The MAILING DATE of this commu or Reply	ınication appears	s on the cover sheet (	with the correspondence addre	ss				
THE   - Exte after   - If the   - If NC   - Failu   - Any	ORTENED STATUTORY PERIOD MAILING DATE OF THIS COMMUI nsions of time may be available under the provisio SIX (6) MONTHS from the mailing date of this core period for reply specified above is less than thirty period for reply is specified above, the maximum re to reply within the set or extended period for repreply received by the Office later than three month and patent term adjustment. See 37 CFR 1.704(b).	NICATION. ns of 37 CFR 1.136(a). nmunication. (30) days, a reply with statutory period will ap bly will, by statute, caus	In no event, however, may a in the statutory minimum of th ply and will expire SIX (6) MC se the application to become a	a reply be timely filed  nirty (30) days will be considered timely.  DNTHS from the mailing date of this comm  ABANDONED (35 U.S.C. § 133).	unication.				
1)⊠	Responsive to communication(s) f	iled on <u>15 Octob</u>	<u>oer 2001</u> .						
2a) <u></u>	This action is <b>FINAL</b> .	2b)⊠ This action	on is non-final.						
3)[	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	ion of Claims								
4)🖂	Claim(s) 1-8 is/are pending in the	application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)□	5) Claim(s) is/are allowed.								
6)⊠	Claim(s) <u>1-8</u> is/are rejected.								
	Claim(s) is/are objected to.								
8)□	Claim(s) are subject to rest	riction and/or ele	ection requirement.						
Applicati	on Papers								
9)[	The specification is objected to by	he Examiner.			•				
10)	The drawing(s) filed on is/ar	e: a)∏ accepte	ed or b)⊡ objected to	by the Examiner.					
	Applicant may not request that any ob			` '					
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority ι	ınder 35 U.S.C. §§ 119 and 120								
a)l 13)□ A si 3 a 14)□ A	Acknowledgment is made of a clai  All b) Some * c) None of  Certified copies of the priorit  Certified copies of the priorit  Copies of the certified copie application from the Internat  Cee the attached detailed Office act  Acknowledgment is made of a claim ince a specific reference was included to the certified copie  Terms of the certified copie application from the Internat  Central of the certified copie application from the Internat  Central of the certified copie  The translation of the foreign lacknowledgment is made of a claim	y documents ha y documents ha s of the priority o ional Bureau (Po ion for a list of the for domestic pri led in the first se anguage provision	ive been received. Ive been received in documents have been CT Rule 17.2(a)). The certified copies notionity under 35 U.S.Centence of the specification has iority under 35 U.S.Cententence 35 U.S.Centence 35 U.S.Cententence 35 U.S.Cententence 35 U.S.Centence 35 U.	Application No n received in this National Stant received. S. § 119(e) (to a provisional application or in an Application Daubeen received. S. §§ 120 and/or 121 since a s	oplication) ta Sheet.				
re	eference was included in the first se	ntence of the sp	ecification or in an A	Application Data Sheet. 37 CF	R 1.78.				
Attachmen	t(s)								
1) Notice 2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review			Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-15					
3) 🔀 Infor	mation Disclosure Statement(s) (PTO-1449)	Paper No(s) 2.	6) Other:	•					

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#### **DETAILED ACTION**

1. Claims 1-8 are pending in this application.

2. The claims and only the claims form the metes and bounds of the invention.

"Office personnel are to give the claims their broadest reasonable interpretation in light of the supporting disclosure. *In re Morris*, 127 F.3d 1048, 1054-55, 44USPQ2d 1023, 1027-28 (Fed. Cir. 1997). Limitations appearing in the specification but not recited in the claim are not read into the claim. *In re Prater*, 415 F.2d, 1393, 1404-05, 162 USPQ 541, 550-551 (CCPA 1969)" (MPEP p 2100-8, c 2, I 45-48; p 2100-9, c 1, I 1-4). The Examiner has full latitude to interpret each claim in the broadest reasonable sense. Examiner will reference prior art using terminology familiar to one of ordinary skill in the art. Such an approach is broad in concept and can be either explicit or implicit in meaning.

## Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-8 are rejected under 35 U.S.C. 102(b) as being anticipated by Seredynski et al (IEEE 0-7803-3104-4 referred to as **Seredynski**).

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#### Claim 1

Seredynski anticipates providing an optimization algorithm (Seredynski, pg 432, c 2, I 16-21); creating a plurality of coevolutionary agents implementing the optimization algorithm, each coevolutionary Agent having a primary search variable and at least one secondary search variable, the plurality of coevolutionary agents distributed across the at least two nodes in the network architecture and the primary search variable of each coevolutionary agent corresponding to one of the at least one secondary search variables of the remaining coevolutionary agents (**Seredynski**, pg 432, c 2, l 16-21; pg 435, c 1, I 42-43; pg 433, c 2, I 14-25); conducting concurrent local searches using each coevolutionary agent at the corresponding one of the nodes where the coevolutionary agent is located, based on the primary search variable of the coevolutionary agent for producing local solutions using information available from the corresponding one of the local databases (Seredynski, pg 432, c 2, l 16-21; pg 435, c 1, l 42-43; pg 433, c 2, l 14-25); updating the primary search variable of each coevolutionary agent based on the corresponding one of the local solutions (Seredynski, pg 434, c 1, I 1-19; pg 433, c 2, I 26-30); providing a plurality of mobile agents at the at least two nodes (Seredynski, pg. 434, c 1, I 1-19; pg 433, c 2, I 26-30); using the plurality of mobile agents to transport the local solutions produced at each node having a coevolutionary agent to all of the other nodes (Seredynski, pg 434, c 2, I 5-12); and updating the at least one secondary search variable of each coevolutionary agent using local solutions transported by the mobile agents using a coordination scheme (Seredynski, pg 434, c 1, I 7-10).

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#### Claims 2, 6

Seredynski anticipates repeating conducting concurrent searches, updating the primary search variable, using the mobile agents to transport local solutions and updating the at least one secondary search variable to produce an optimized solution (**Seredynski**, pg 434, c 1, I 18-19).

#### Claims 3, 7

Seredynski anticipates accessing the optimized solution at any one of the at least one nodes (**Seredynski**, pg 434, c 1, I 1-30).

#### Claims 4, 8

Seredynski anticipates the coordination scheme is selected from the group consisting of local, joint, pool, elite local, elite joint and elite pool schemes (**Seredynski**, pg 432, c 2, I 3-10).

#### Claim 5

Seredynski anticipates providing an optimization algorithm relating the multiple interdependent variables (**Seredynski**, pg 432, c 2, I 3-16; pg 432, c 2, I 16-21); creating a plurality of coevolutionary agents implementing the optimization algorithm, each coevolutionary agent setting one of the multiple interdependent variables as a primary search variable, the rest of the interdependent variables being defined as secondary search variables for the coevolutionary agent (**Seredynski**, pg 432, c 2, I 16-21; pg 435, c 1, I 42-43; pg 433, c 2, I 14-25); distributing the plurality of coevolutionary agents across the plurality of nodes (**Seredynski**, pg 435, c 1, I 42-43); conducting concurrent local searches using each coevolutionary agent at the corresponding one of

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the nodes where the coevolutionary agent is located, based on the primary search variable of the coevolutionary agent for producing local solutions from information available from the corresponding one of the local databases (**Seredynski**, pg 432, c 2, I 16-21; pg 435, c 1, I 42-43; pg 433, c 2, I 14-25); updating the primary search variable of each coevolutionary agent based on the corresponding one of the local solutions (**Seredynski**, pg 434, c 1, I 1-19; pg 433, c 2, I 26-30); providing a plurality of mobile agents in the network-distributed environment (**Seredynski**, pg 434, c 1, I 1-19; pg 433, c 2, I 26-30); using the plurality of mobile agents to transport the local solutions produced at each node having a coevolutionary agent to all of the other nodes (**Seredynski**, pg 434, c 2, I 5-12); and updating the at least one secondary search variable of each coevolutionary agent using local solutions transported by the mobile agents using a coordination scheme (**Seredynski**, pg 434, c 1, I 7-10).

#### Conclusion

5. The prior art of record and not relied upon is considered pertinent to applicant's disclosure.

Hocaoglu et al, USP 6,249,714

Kauffman, US Pub 2001/0032029

Carter et al. US Pub 2003/0051026

6. Claims 1-8 are rejected.

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### Correspondence Information

Any inquiry concerning this information or related to the subject disclosure should be directed to the Examiner, Joseph P. Hirl, whose telephone number is (703) 305-1668. The Examiner can be reached on Monday – Thursday from 6:00 a.m. to 4:30 p.m.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Anil Khatri can be reached at (703) 305-0282.

Any response to this office action should be mailed to:

Commissioner of Patents and Trademarks,

Washington, D. C. 20231;

or faxed to:

(703) 746-7239 (for formal communications intended for entry);

or faxed to:

(703) 746-7290 (for informal or draft communications with notation of "Proposed" or "Draft" for the desk of the Examiner).

Hand-delivered responses should be brought to:

Receptionist, Crystal Park II

2121 Crystal Drive,

Arlington, Virginia.

Joseph P. Hirl

SUPERVISORY PATENT EXAMINER

November 6, 2003